

CASCADE CHARTER TOWNSHIP
INFRASTRUCTURE COMMITTEE MEETING
September 1, 2021 at 9:00 am
Cascade Township Hall – Large Conference Room
5920 Tahoe Dr. SE
Grand Rapids, MI 49546

- ARTICLE 1.** Call the Meeting to Order
- ARTICLE 2.** Approval of the Agenda
- ARTICLE 3.** Approval of the Minutes of the July 7, 2021 Meeting
- ARTICLE 4.** Review & Consideration of Update to Township Local Road Program
- ARTICLE 5.** Review & Consideration of 2022 Gypsy Moth Survey
- ARTICLE 6.** Update – Burger Goodwood Utility Extension Engineering
- ARTICLE 7.** Public Comment (Please limit comment to 3 minutes)
- ARTICLE 8.** Adjournment

**CASCADE CHARTER TOWNSHIP
INFRASTRUCTURE COMMITTEE MEETING**

July 7, 2021 at 9:00am

Front Conference Room at Township Hall
5920 Tahoe Dr. SE, Grand Rapids, MI 49546

Members Present: Trustee McDonald, Trustee Shipley

Members Absent: Supervisor Lesperance

Others Present: Township Manager (TM) Ben Swayze, Community Development Director (CDD) Steve Peterson, Kent County Drain Commissioner Ken Yonker, Deputy Kent County Drain Commissioner Angie Lataitis

Call to Order: Trustee Shipley called the meeting to order at 9:00 a.m.

Business: The Infrastructure Committee discussed the following items:

1. Consolidation of Drains – Hidden Hills

KC Drain Commissioner Ken Yonker and Dpt. Drain Commissioner Angie Lataitis explained the situation regarding the Hidden Hills Drainage districts. In this neighborhood the KCDC has several drains on the same water course but were established at different times based on the subdivision boundary. The watercourse is established under 3 separate drains and 5 different districts depending on the location/plat. DC Yonker explained that the KCDC would like to consolidate the 5 drainage districts into 1 for clarity. The 5 districts are:

- Apple Hills
- Apple Hills East
- Ashton Ridge
- Cascade Highlands
- Hidden Hills

The requested action is for the Township Board to approve, by resolution, a petition of the KCDC to consolidate the districts. If the petition is approved by the Township Board and transmitted to the KCDC, all residents in all proposed consolidation districts would be notified and invited to a Board of Determination. The ultimate decision is determined by the Board of Determination whether consolidation is necessary and any necessary maintenance. Discussion ensued. The committee agreed that it seemed more efficient to have one drain for the area.

Motion by Trustee McDonald, supported by Trustee Shipley to recommend the Township Board approve the petition for the consolidation of the Hidden Hills area drainage districts. Motion carried.

2. Burger Goodwood Neighborhood Project Administration

TM Swayze led a discussion regarding the administration of the grant funded Burger Goodwood Neighborhood project. As the funding has been awarded to the City of Grand Rapids, and the city has the engineering expertise, it makes sense that city administer the project with the Township participation. Discussion ensued. TM Swayze indicated that the project would begin with an RFP process for engineering. The committee agreed that the City administering the project made the most sense.

No action, discussion only

Adjournment: Motion by Trustee Shipley, supported by Trustee McDonald to adjourn the meeting. Motion carried. Meeting adjourned at 9:32 am

Approved by the Infrastructure Committee – TBD



CASCADE CHARTER TOWNSHIP
5920 Tahoe Dr. SE Grand Rapids, Michigan 49546

Date: September 1, 2021
To: Infrastructure Committee
From: Ben Swayze, Township Manager
Subject: 2022 Gypsy Moth Survey

The Township has received a proposed contract from Aquatic Consulting Services for the fall Gypsy Moth Survey that would help program the 2022 Gypsy Moth Spray program. Attached for review are communication from Neal Swanson of Aquatic Consulting Services and a proposed contract for the fall gypsy moth survey.

RECOMMENDED ACTION:

Forward a recommendation to the Township Board regarding the Gypsy Moth Survey contract with Aquatic Consulting Services.

Ben Swayze

From: Aquatic Consulting Services <gypsymoth@aquaticremedies.com>
Sent: Tuesday, August 17, 2021 3:50 PM
To: Ben Swayze
Subject: Gypsy Moth Agreement for 2022 Season
Attachments: CasProposalLtr_22.pdf; Cascadetwp22Agree.pdf

Good afternoon Ben,

I haven't heard a lot from you regarding gypsy moth issues this summer, so I am hoping that no news is good news. Things also appeared pretty good in my trips around the area this summer. However, if you do have any record of complaints from this summer, please send the files over.

I assume you have heard about the infestations elsewhere in Michigan this year? If not, its been pretty bad in many areas of the state. Many reports are saying the worst they've seen in 25-30 years. So, I'd HIGHLY recommend that the Cascade Township continue with a suppression program for this year at least.

I have attached an updated 2022 Agreement and Letter for your consideration. Given the widespread need for our services in 2022, I have unfortunately had to increase our repeat clients by \$250 this year to account for increased operational costs, but Cascade is still getting a significant bargain relative to new clients this year. I know this email came a little earlier this year, but I am just trying to lock down our number of clients this year. If you have any questions, please let me know.

Thank you,
Neal Swanson

*Neal J Swanson
Biologist/Owner
Aquatic Consulting Services LLC*

*Ph: (989)689-0223
Cell: (616)706-2164
email: gypsymoth@aquaticremedies.com*



Aquatic Consulting Services

P.O. Box 530, Sanford, MI 48657
www.aquaticremedies.com

989-689-0223

August 17, 2021

Mr. Ben Swayze, Manager
Cascade Charter Township
2865 Thornhills, S.E.
Grand Rapids, MI 49546

Dear Mr. Swayze:

Thank you for considering the continuation of your gypsy moth suppression program. Aquatic Consulting Services has been actively doing this work for 35 years throughout Michigan, and for the past 24 years in Cascade Charter Township.

I think the results of our 2021 gypsy moth suppression efforts were largely positive, but I must caution you that populations are still quite elevated in the West Michigan area. We are getting calls from numerous areas around the state, that this is the worst they've seen in years. I highly recommend that Cascade continue with a suppression program again in 2022. The remnant populations present in the area can multiply quickly and continue causing nuisance and tree damage at high levels. The invasive life history of the gypsy moth often results in alternating cycles of very low or very high numbers. Our job is to find the very short period of transition between these two extremes and intervene, so the low populations do not become nuisance populations.

We accomplish this task by surveying the entire Township where suitable habitat exists, noting the gypsy moth populations, their health, degree of parasitism, egg viability, egg mass size, and other factors that influence the coming year's population. This information is analyzed with the threshold model developed in Michigan so we know when intervention is appropriate. By aerially spraying the selected areas, the population is kept in check using only a minimum of spray. It is likely that the majority of your residents will never know the devastation of a gypsy moth outbreak as long as we maintain a proactive attitude toward monitoring and control.

I have attached an Agreement for the 2022 insect season for your consideration. If you find it acceptable, please return a signed copy to me and we will schedule the work. Mid-October is the best time to start and we usually finish by the end of the year. I will send a final report to you once surveying is complete.

Sincerely,

Neal Swanson, Owner/Biologist

Enclosure



Aquatic Consulting Services

P.O. Box 530, Sanford, MI 48657
www.aquaticremedies.com

989-689-0223

AGREEMENT Gypsy Moth Population Surveys for Aerial Spraying 2022 Cascade Charter Township

Aquatic Consulting Services II LLC, PO Box 530, Sanford, MI 48657 agrees to provide certain work, analysis, and/or reports as described below:

1. Conduct gypsy moth egg mass surveys to determine areas that require aerial spraying in 2022 to suppress nuisance levels of gypsy moth larvae. The area to be surveyed includes the entire Township of Cascade except for the open area surrounding the airport unless suitable tree cover is present to support a sustained gypsy moth population. The surveys will be completed during the autumn when conditions are favorable for this procedure and following approval and receipt of a final agreement.
2. Determine spray block configuration for efficient aerial treatment of the high priority areas and map the blocks using a computer-based mapping system.
3. Maintain the egg mass count data and spray block records to include the 2022 data so the gypsy moth population can be tracked over time.
4. Analyze the egg mass survey data according to the method known as the "Kroll Threshold Model" to determine the risk of nuisance levels of larvae in each potential spray block.
5. Recommend areas to be treated by aerial spraying of *B. thuringiensis* (B.t.) to alleviate nuisance levels of gypsy moth larvae and to deter population buildup.
6. Provide paper and electronic maps of the areas recommended for treatment to both the Township and to the Aerial Contractor.
7. Provide the digitized spray blocks on computer media to the pilot for the AgNav cockpit GPS guidance system. Objectors to the spray, if any, will be excluded from the spray block providing the objector information is received by Aquatic Consulting Services from the Township by April 30, 2021.
8. The egg mass survey field work will be accomplished by December 31, 2021. The analysis, the recommended spray blocks, and the accompanying maps will be completed by January 15, 2022.

As Client, Cascade Charter Township, 2865 Thornhills, S.E., Grand Rapids, MI 49546, agrees to compensate Aquatic Consulting Services for the above-described services as follows:

A total of \$9,050.00 upon completion of the survey and receipt of proper invoice.

Also, the Township agrees to furnish any existing maps, either paper or in electronic format, that may be of use in assisting the described work.

Client: _____ Date: _____
Ben Swayze, Township Manager

Aquatic Consulting Services: _____ Date: _____
Neal Swanson, Owner

Terms:



CASCADE CHARTER TOWNSHIP

5920 Tahoe Dr. SE Grand Rapids, Michigan 49546

Date: September 1, 2021
To: Infrastructure Committee
From: Ben Swayze, Township Manager
Subject: 2021 Local Road Program

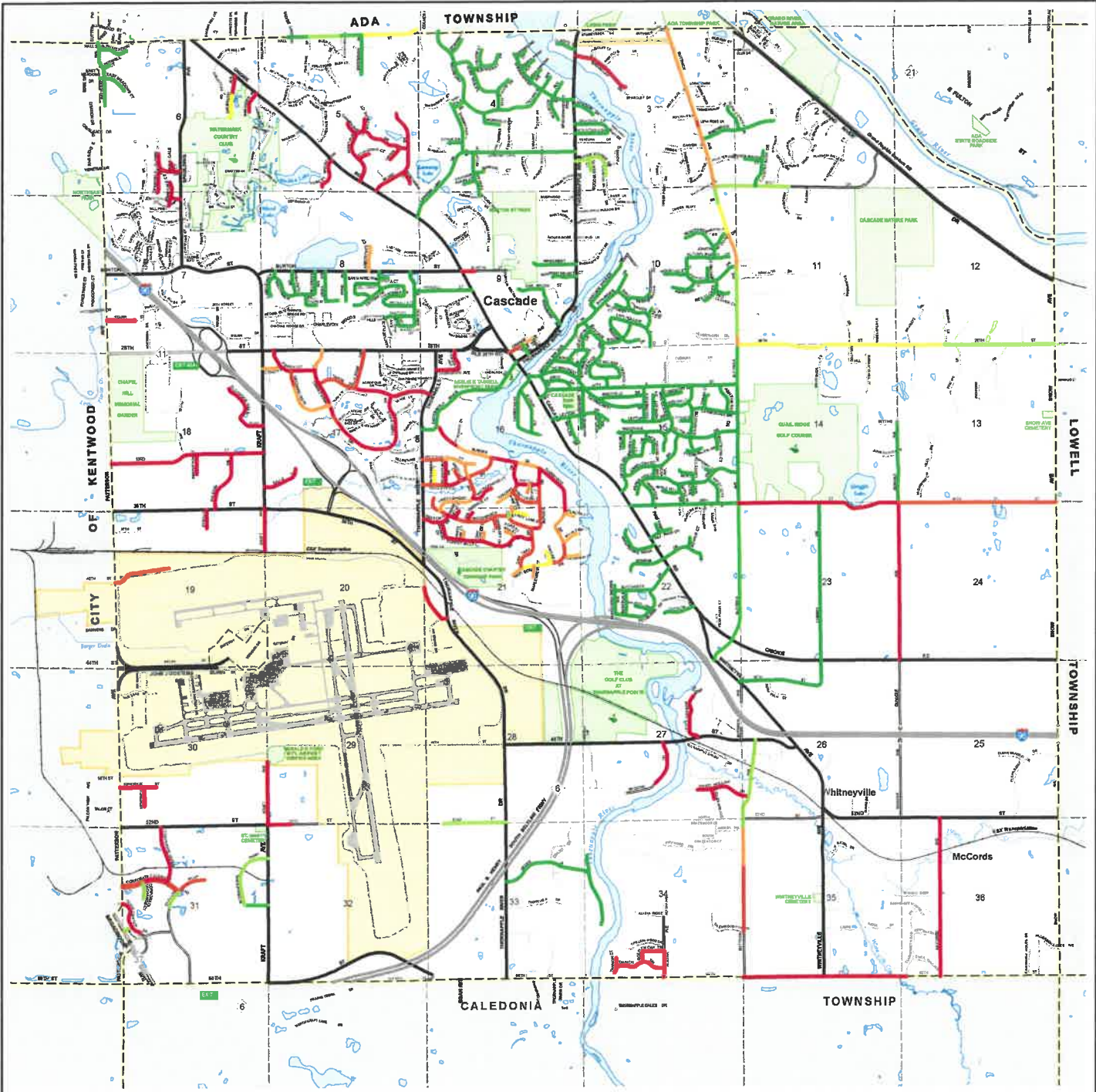
In spring 2021 The Township Board approved a comprehensive local road program. After bids were received, the Township received significant savings over the budget for the projects.

<u>Project</u>	<u>Estimate</u>	<u>Actual</u>	<u>Twp Est.</u>	<u>Twp Act.</u>	<u>Savings</u>
Beard Farm +	\$1,000,000	\$579,455	\$500,000	\$289,728	\$210,272
Centennial	\$1,340,000	\$814,455	\$670,000	\$407,228	\$262,712
Kraft Industrial	<u>\$1,150,000</u>	<u>\$629,455</u>	<u>\$575,000</u>	<u>\$314,728</u>	<u>\$260,272</u>
	\$3,490,000	\$2,023,365	\$1,745,000	\$1,011,684	\$733,256

The Road Commission has indicated there may be an opportunity to apply the Township “savings” to more paving projects at a 50/50 match with the Road Commission. Attached for your review is the Township PASER map.

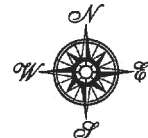
RECOMMENDED ACTION:

Forward a recommendation to the Township Board on the allocation of excess appropriated local road funding should extra opportunities become available.



ROAD CONDITION

- POOR (1 OR 2)
- POOR (3)
- POOR (4)
- FAIR (5)
- FAIR (6)
- FAIR (7)
- GOOD (8-10)



Updated: 12/11/2020



CASCADE CHARTER TOWNSHIP
 KENT COUNTY, MICHIGAN
2020 LOCAL PASER MAP



Bid Comparison

Contract ID: 21-28
Description: Beard Farm Plat
Location: 2021 Cascade TWP
Projects(s): 21-28

Rank	Bidder	Total Bid	% Over Low	% Over Est.
0	ENGINEER'S ESTIMATE	\$828,645.00	43.00%	0.00%
1	(08551) Superior Asphalt, Inc.	\$579,455.00	0.00%	-30.07%
2	(00253) Rieth-Riley Construction Co., Inc.	\$665,575.25	14.86%	-19.67%
3	(00529) Michigan Paving and Materials Company	\$692,901.35	19.57%	-16.38%
4	(06510) Black Gold Transport, Inc.	\$730,030.80	25.98%	-11.90%

Bid Comparison

Contract ID: 21-54
Description: 2021 Cascade Local Roads Program
Location: Cascade TWP Kraft Industrial Park Streets
Projects(s): 21-54

Rank	Bidder	Total Bid	% Over Low	% Over Est.
0	ENGINEER'S ESTIMATE	\$893,251.00	41.90%	0.00%
1	(08551) Superior Asphalt, Inc.	\$629,455.00	0.00%	-29.53%
2	(00253) Rieth-Riley Construction Co., Inc.	\$731,203.45	16.16%	-18.14%
3	(00529) Michigan Paving and Materials Company	\$743,090.30	18.05%	-16.81%
4	(06510) Black Gold Transport, Inc.	\$787,262.90	25.07%	-11.86%

Bid Comparison

Contract ID: 21-53

Description:

Location: 2021 Cascade TWP Centennial Park Streets

Projects(s): 21-53

Rank	Bidder	Total Bid	% Over Low	% Over Est.
0	ENGINEERS ESTIMATE	\$1,166,335.00	43.20%	0.00%
1	(08551) Superior Asphalt, Inc.	\$814,455.00	0.00%	-30.16%
2	(00253) Rieth-Riley Construction Co., Inc.	\$951,254.90	16.79%	-18.44%
3	(00529) Michigan Paving and Materials Company	\$980,510.50	20.38%	-15.93%
4	(06510) Black Gold Transport, Inc.	\$1,005,059.40	23.40%	-13.82%

Description	F&V	Holland	P&N	Spaulding
Project Manager	Steve Bishop	Lynnelle Berkenpas	Kevin Koster	Dan VanderHeide
QAQC	Don DeVries	Ryan Ysseldyke	Jeremy Kamp	Jeremy Schrot
Design	Andy Ogilvie	Collin DePeke	Jim Herman	Taylor Reynolds
Design	Michael Mattzela	Steven Morris	Mark DeHaan	Terry Lindow
Design	Danell Smith	Mark Brookhouse	Jayson Pruis	Scott Isenberg
Design			Payton Novak, Kevin Gritters	Bruce Carlstrom
Survey	Kevin Cleaver, F&V	Doug Lansky, Holland	Daniel Elzinga	Mike DeDecker
Private Property Agreements/Easements		Michlana Land Services		
Geotechnical Services	MTC	MTC	Chris Cruickshank	Soils & Structures

Cascade Water Main: Burger-Goodwood

Design

Design Labor	\$ 254,700	\$ 250,600	\$ 133,800	\$ 207,568
Geotechnical - Design Soil Borings	\$ 11,990	\$ 7,500	\$ 5,500	\$ 15,940
Internal Reimbursable	\$ 8,700.00		\$ 168	
Total Reimbursables	\$ 20,690.00	\$ 7,500	\$ 5,668	\$ 15,940
Total Design Cost	\$ 275,390	\$ 258,100	\$ 139,468	\$ 223,508
Private Property Agreement Allowance	rate sch exhibit C	\$ 114,000	\$ 39,168	\$ 56,032
Total Design Hours exc private property agreements	2679	2270	1170	1650
Design Cost Per Hour	95.07	110.40	114.36	125.80

Notes	Total estimated hours not given for access agreements. Similar work in Fennville, abandoned 65% of 200 wells	Agreement allowance based on 1,122 hours of effort by Michiana LS or 4.4 hours each	Agreement allowance based on 1.5 hours per agreement or \$153/each. Similar work in Kalamazoo & Plainfield Twp	Agreement allowance based on 2 hours each
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Construction

Construction Labor	\$ 309,922	\$ 313,300	\$ 255,836	\$ 378,600
Construction Inspection Hours	2528	3280	1404	2304
Construction Staking Hours	included above	included above	416	580
Construction Administration Hours	included above	included above	882	668
Construction Materials Testing		\$ 37,500		\$ 32,500
Internal Reimbursables	9170	0	2964	0
Total CE&I including testing	\$ 319,092	\$ 350,800	\$ 258,800	\$ 411,100

Notes	Materials Testing fee not provided; stated they will coordinate with City's third party testing firm	3,150 hours for construction (inc. admin/ins/staking); 130 hours for as-builts	1. Inspection based on 50 hours/week for 26 weeks; 2. Testing typically included in bid package to be done by contractor per Brian. P&N has some certified staff too.	1. Inspection: 60 hours/week for 32 weeks; 16 weeks of part time inspector (if needed).
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Total (excluding testing and access agreements)	\$ 594,482	\$ 571,400	\$ 398,268	\$ 602,108
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• Similar Experience (rate 0-25)				
• Project Team (rate 0-25)				
• Project Approach including Schedule (rate 0-25)				
• Project Cost (rate 0-25)				
Total Score	0	0	0	0

CITY OF GRAND RAPIDS
PROFESSIONAL AND TECHNICAL ENGINEERING SERVICES (#16096)

Project Title: Water Main in Burger Drive, Tanglewood Drive, Tricklewood Drive, Brookhills Court, Tricklewood Court, Tuscany Drive, Cimarron Drive, Tripoli Street, and Tripoli Court; and Water Service Installation in Goodwood Drive and Woodbrook Drive (Burger-Goodwood Neighborhood) (File No. 21044)

Limits: Water Main to be within the right-of-way (ROW) within the limits shown on Phase 1 of the proposed project area.

Contact: Jeff McCaul, jmccaul@grcity.us, 616-456-3075

Owners: City of Grand Rapids Engineering Department, Water Department, and Cascade Charter Township

Objective:

Engineering services are being sought to conduct Design Engineering Phase Services including Bidding and Construction Engineering/Inspection Phase Services for the Burger-Goodwood Neighborhood - Phase 1 project as shown in the attached "Consolidation and Contamination Risk Reduction (C2R2) Grant Application"

Description:

The City of Grand Rapids (City) and Cascade Charter Township (Township) propose to extend water main in the Phase 1 area of the Burger-Goodwood Neighborhood and connect 256 residential wells in this area to the new water main and existing water main within these limits.

Project Background:

The Township's Burger and Goodwood neighborhoods became an official Michigan PFAS Action Response Team (MPART) Area of Interest in March 2019 due to their proximity to known potential PFAS sources and local geologic features between the Gerald R. Ford International Airport and the Thornapple River. PFAS chemical levels greater than one or more of the PFAS Maximum Containment Levels (MCL) have been detected in samples from 40 individual residential wells and one or more of the PFAS compounds were detected in more than 60% of the results. The City of Grand Rapids Water System (City), in partnership with the Township, have identified a long-term solution to address PFAS contamination in residential wells. Converting 473 properties with residential wells onto the City domestic water main, which only partially serves the neighborhood at this time, has been identified by the Township as the most effective long-term solution. The proposed project will be accomplished in phases and is currently estimated to cost \$13,230,525.

Michigan Public Act 57 of 2019 provides grants up to \$5,000,000 to drinking water systems for contaminant remediation efforts or connection to an alternate system. A grant

application for a Consolidation and Contamination Risk Reduction (C2R2) grant was submitted to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) in January 2021. EGLE approved the grant application in the amount of \$5,000,000 for the first phase of the project which proposes the construction of 12,025 feet of water main and the connection of 256 residential wells to the City domestic water main and is estimated to cost \$6 million.

Scope of Work:

General:

- Review as-built information.
- Data Gathering Including:
 - Field survey and base plans to City's current CAD standards
 - As needed geotechnical and soils investigations, sub-aqueous investigations, and other pertinent information required for the proper design of the project.
- Conduct design meetings with City Staff and assist with public engagement. Meetings include: Design kickoff meeting, all intermediate review meetings, checkprint meeting if necessary, and 100% review meeting if necessary.
- Conduct an internal "peer" review of 100% drawings and specifications prior to submitting for signature of City Engineer.
- Prepare and deliver Construction drawings, specifications, documents, and the Engineer's Construction Cost Estimate to meet City standards and Grand Rapids current CAD standards.
- Prepare all necessary forms and permit applications, including but not necessarily limited to water permit applications, lake and stream permit for two water main bores under water bodies, Kent County Road Commission permits for right of way (ROW) work/road crossings, etc.
- The Consultant should plan to provide biweekly progress reports via email during the design stage of the project in addition to providing this information with the Consultant Monthly Progress Reports (CMPRs) with invoicing.
- Bidding Assistance: Answer contractor questions during the bidding period and advise City Staff of any such questions and answers.

Estimated Project Budget:

- Phase 1 Preliminary Construction Estimate = \$5,261,000
- Phase 1 Estimated Total Project Cost = \$6,000,000

Qualification Submission:

All proposals must include the following information:

- Title Page
- Table of Contents
- References for similar projects: include full names, companies, addresses, phone numbers, and email addresses of the business office.
- Organizational chart with all project team members identified.
- Resumes for all proposed project team members.

- Outline of methods and techniques that will be used to maintain the overall project budget.
- Additional information – Present any data or information with the firm considers pertinent to the selection process. Information should be kept relevant to the project.
- Fee summary for the project including total hours by task as well as reimbursable expenses and allowances with fee
- Proposals are not to exceed 15 pages front and back (30 pages total).

Timeframe:	Proposals Due:	August 16, 2021 4:00pm EST
	Proposal Award	August, 2021
	Submit Final Plans to the City	January 2022
	Bid Opening:	February 2022
	Construction Start	Spring 2022
	Substantial Completion	November 19, 2022
	Final Completion	June 30, 2023

Project Costs:

Consultant fee is to include the following:

- Labor to achieve project objectives and scope of work
- Site investigations and survey
- Project budgeting
- Design Engineering Fee including Bidding phase services
- Assist in managing bid process
- Conduct design meetings and produce minutes
- Construction Engineering and Inspection Fee for Phase 1 work including any reimbursable expense and subconsultant fees.
- Provide hourly rate and estimated number of hours to obtain private property access agreements for 256 properties for work associated with installing a new water service into the basement, capping existing well and associated restoration of private property. List as a separate line in design fee.

Design Deliverables:

1. Data gathering: summary of private and public utilities including age, condition, and recommended improvements; summary of recommended improvements. Only limited sewer is anticipated at this time.
2. An electronic copy of all Project Documents (90% drawings, specifications, Engineer's Construction Cost Estimate and Sources and Uses identified with the Project Cost Estimate including all project work. Construction cost estimate, Design and Construction phases services, Public Engagement, 5% Administration, 12% Contingencies is to be delivered to City Staff for checkprint review. The drawings sets are to be on bond paper. An electronic submittal of all Project Documents is also to be delivered to City Staff at the same time.
3. An electronic copy of all Project Documents (100% drawings, specifications, Engineer's Construction Cost Estimate, Soil Borings, etc. is to be delivered to City Staff.

- a. Specifications in Microsoft Word format.
 - b. Drawings
 - i. CAD and PDF formats.
 - c. 1 hard copy –Mylar Cover (Title) sheet
 - d. Final Engineer’s Estimate: in XLS & PDF formats.
4. Proposal to furnish Construction Engineering/Inspection Phase Services

Selection Criteria:

- Similar Experience.....25 points
- Project Team.....25 points
- Project Approach including Schedule.....25 points
- Project Cost.....25 Points

E-Mail your PDF responses to Jeff McCaul (jmccaul@grcity.us) by **4:00 PM EST, August 16, 2021**

Include:

- Firm identification
- Key project team members and experience
- Sub-consultants
- Identification of MLBE consultants and/or sub-consultants
- Scope of services for project
- Detailed schedule for project
- Estimated cost of services with breakdown for design engineering, construction engineering & Inspection, reimbursable costs, hourly rate with estimated hours to obtain private property access agreements

UTILIZATION OF MICRO - LOCAL BUSINESS ENTERPRISES (Micro-LBE)

The City of Grand Rapids is committed to maximizing equal opportunity and diversity, not only in its workforce, but in its procurement of goods and services -- including professional services. Therefore, consultants retained by the City are encouraged, when feasible, to utilize Local Micro Businesses as sub consultants in the provision of its firm’s services.

Available Information:

- Grant Application
- Grant Agreement

As-Bid/As-Built:

21044 WM and Water Service Installation at VAR LOC